



GeoCinema Schedule: Monday, 24 April 2017

- 10:30--12:00 **Patagonia 2016 – Ice Project**
A short video showing the exploration of the glacier Perito Moreno (Patagonia, Argentina)
World Glacier Monitoring Service – achievements and future challenges
A brief introduction to the World Glacier Monitoring Service
365 Days under Antarctic Ice
A year of scientific and human adventure in harsh conditions
- 12:00–12:15 **BREAK**
- 12:15–13:15 **EuroVenus – studying Earth's twin**
A consortium of European researchers investigate Venus using a combination of space and ground-based observatories
Visions of Harmony
The Juno mission and the relationship between the arts and sciences
- 13:15–13:30 **BREAK**
- 13:30–14:45 **The birth of species – reconnecting Darwin and the fossil record**
Retracing the birth of evolutionary biology from 1801 to the present
- 14:45–15:00 **Phosphorus burial in Lake Vesijärvi, Finland**
Showcasing research on phosphorus cycling in the sediments of Lake Vesijärvi, Finland
Innovative silvicultural treatments to enhance soil biodiversity in artificial black pine stands
Could silvicultural treatment of artificial forests have positive effects to enhance plant growth and increase soil biodiversity?
Why is All Sand the Same?
An animation exploring where Earth's sand comes from
Why Do Rivers Have Deltas?
An animation explores the basics of river deltas
- 15:00–15:30 **Communicate your Science Video Competition Finalists**



- 15:30–16:00 **FIRE –Echoes From the Earth's Crust, Finnish Reflection Experiment**
Discover how over 2000 km of crustal scale seismic reflection profiles acquired over Finland
IODP 365: Exploring the Fault Trace
What surprises does an observatory deployed almost 6 years ago hold in its data recorder?
- 16:00–17:00 **La Réunion, from crust to core**
A passive seismic experiment aims to image an oceanic mantle plume – or lack of plume – beneath La Réunion Island
Sediment Dynamics in High-Mountain Environments
What happens when glaciers retreat and expose sediments to erosion?
- 17:00–17:30 **BREAK**
- 17:30–18:30 **Dream Big**
An inspirational documentary that answers some of the main questions about why humans explore space
Big Earth Data – The Digitized Planet
A documentary featuring the challenges and opportunities of Big Data in the Earth sciences
- 18:30–19:00 **Lari – Lohkare-etsijä, Lari – a prospecting dog**
Lari, a German shepherd, helps her handler locate ore deposits
ARCoES Project – Supporting decision makers
Applying modelling and monitoring to aid decision making for coastal energy infrastructure
CHANGE
Our growth and prosperity are changing Planet Earth, and some of those changes may be forever.

Communicate your Science Video Competition Finalists

Vote for your favourite at: www.youtube.com/user/EuroGeosciencesUnion



GeoCinema Schedule: Tuesday, 25 April 2017

- 10:30–12:00 **Ice2Ice – D-O Events**
A first concerted effort to tackle the question of the cause and future implications of past abrupt climate changes in Greenland
- Is Climate Change Just a Lot of Hot Air?**
A short animation explores the basics of climate change
- Between Earth and Sky: Climate Change on the Last Frontier**
Climate change through the lens of impacts to native Alaskans, receding glaciers, and arctic soil
- How do Greenhouse Gases Really Work?**
A short animation explores the basics of greenhouse gases
- 12:00–13:45 **Into the Inferno**
Werner Herzog and volcanologist Clive Oppenheimer attempt to understand man's relationship with one of nature's most violent wonders – a NETFLIX film
- 13:45–14:15 **Plumes of Piton de la Fournaise**
How can we improve our ability to model sources, transport and impact of diluted volcanic plumes on air quality and climate?
- In the hell of Mount Kronio**
Jump into the Stufe di San Calogero caves in Sicily and explore a rich landscape of scientific interest
- Volcanic Infrasound**
Follow scientists from the Earth Observatory of Singapore as they explore the use of digital technology to monitor volcano activity
- 14:15–15:00 **CRISIS Project. Marine submersion exercise in Leucate**
Discover how local residents of the Mediterranean coast of France prepare to respond to the risk of marine submersion
- Ichiro and the Wave**
Ichiro was fishing near the coast of Banda Aceh, Indonesia, when the 2004 Indian Ocean tsunami struck his boat
- Rossby waves and extreme weather**
What atmospheric mechanism can generate strong meanders of the Jet Stream?
- Huayruro project**
In AD 1600, the eruption of Huaynaputina volcano in South Peru buried more than 20 villages. This project aims to raise public awareness of volcanic hazards.
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What surprises does an observatory deployed 6 years ago hold in its data recorder?
- 16:00–17:00 **Mael: A Rare Seabed Habitat**
A documentary about coralline red algae habitats found in the clear, shallow waters of the west of Ireland and worldwide
- 17:00–17:30 **BREAK**
- 17:30–18:00 **Himalayan Water Towers**
State-of-the-art measurement techniques and unmanned aerial vehicles are used to understand how the Himalayas are responding to climate change
Petermann Fjord, a Glacier & Climate History
Follow an expedition to the Petermann Glacier in the summer of 2015
Arctic Sea Ice and Greenland Ice Sheet Sensitivity (Ice2Ice)
A team of researchers aim to study abrupt arctic climate change
- 18:00–18:15 **Paleoclimatology 101: Searching in the deep sea libraries**
Join a master student in Earth science, on a real research cruise to the Nordic Seas to gather glimpses from the climate archives hidden in the ocean floors
Ice cores – Revealing secrets of past climate
Scientists drill a deep ice core into a fast flowing ice stream on Greenland
Arctic Sea Ice and Greenland Ice Sheet Sensitivity
Does Arctic and sub-Arctic sea ice cover exert important controls on past and future Greenland temperature and ice sheet variations?
- 18:15–18:45 **Conversations on the North Slope of Alaska: Tracking a Changing Landscape**
Connecting local Inupiat indigenous knowledge to permafrost and climate change research
Ships and Waves Reaching Polar Regions
Did you know waves in ice are one of the most hazardous phenomena for vessels and industrial activities in the polar seas?
- 18:45–19:00 **POLSTRACC – Research flights to the North Pole: the aircraft campaign**
This film features operations and science in the field during research flights into the Arctic upper troposphere and lower stratosphere
Hunting El Nino
A team of researchers travel to Ecuador to investigate the regional impact of El Niño



GeoCinema Schedule: Wednesday, 26 April 2017

- 10:30–12:00 **SC78: Finding funding for your science film**
Learn how to fund engaging videos that help to educate the public on the important strides made in the geosciences with each piece of research
- 12:00–12:15 **BREAK**
- 12:15–13:15 **Dream Big**
A documentary that answers some of the main questions about why humans explore space
Big Earth Data – The Digitized Planet
A documentary featuring the challenges and opportunities of Big Data in the Earth sciences
- 13:15–13:30 **BREAK**
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Could silvicultural treatment of artificial forests increase plant growth and soil biodiversity?
Why is All Sand the Same?
An animation exploring where Earth's sand comes from
Why Do Rivers Have Deltas?
An animation explores the basics of river deltas
- 15:45–16:00 **Tepui: the gates of time**
Take a tour of the Tepui mountains, tabular mountains suspended in the jungle, as well as of a limitless plain between Venezuela, Guayana and Brazil
Where did Earth's Water Come From?
An animation exploring where Earth's water comes from
- 16:00–16:15 **Hydrogeology**
Discover the activities of the Italian community of hydrogeologists
What Came First, the Rain or the Rainforest?
A short animation sheds light on this question
- 16:15–16:30 **Food security, agroecology and climate change**
In Togo, non-government organisations, farmers and professional associations join forces to combat soil erosion, climate change and maintain food security
Farmers in Madagascar adopt agro-ecological practices
New farming practices are being introduced to sequester carbon in soil, combat climate change and maintain food security in rural areas.
- 16:30–17:00 **Lari – Lohkare-etsijä, Lari – a prospecting dog**
Lari, a German shepherd, helps her handler locate ore deposits
ARCoES Project – Supporting decision makers
Applying modelling and monitoring to aid decision making for coastal energy infrastructure



CHANGE

Our growth and prosperity are changing our planet and some of those changes may be forever

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17:30–18:45 **The birth of species – reconnecting Darwin and the fossil record**

Retracing the birth of evolutionary biology from 1801 to the present

18:45–19:00 **Plate Tectonics Explained**

A short animation delves into the basics of plate tectonics

Protecting People from Sand and Dust Storms

Find out how the World Meteorological Organization works to protect those vulnerable to this natural hazard

Science Communication: interviews with workshop participants

Workshop participants talk about the benefits of science communication

Science Communication: workshop hands-on demonstrations

Simple hands-on demonstrations illustrate geological phenomena



GeoCinema Schedule: Thursday, 27 April 2017

- 10:30–10:45 **Phosphorus burial in Lake Vesijärvi, Finland**
Showcasing research on phosphorus cycling in the sediments of Lake Vesijärvi, Finland
Innovative silvicultural treatments to enhance soil biodiversity in artificial black pine stands
Could silvicultural treatment of artificial forests increase plant growth and soil biodiversity?
Why is All Sand the Same?
An animation exploring where Earth's sand comes from
Why Do Rivers Have Deltas?
An animation explores the basics of river deltas
- 10:45–11:00 **Tepui: the gates of time**
Take a tour of the Tepui mountains, tabular mountains suspended in the jungle, as well as of a limitless plain between Venezuela, Guayana and Brazil
Where did Earth's Water Come From?
An animation exploring where Earth's water comes from
- 11:00–11:15 **Hydrogeology**
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The Juno mission and the relationship between the arts and sciences



- 18:30–18:35 **Juno Approach Movie of Jupiter and the Galilean Moons**
NASA's Juno spacecraft captured a unique time-lapse movie of the Galilean satellites in motion about Jupiter
Earth and Moon Seen by Passing Juno Spacecraft with Music by Vangelis
When NASA's Juno spacecraft flew past Earth, it received a boost in speed of more than 8,800 mph setting it on course for a rendezvous with Jupiter.
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Science Communication: workshop hands-on demonstrations
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GeoCinema Schedule: Friday, 28 April 2017

- 10:30–11:45 **Oceans: The mystery of the missing plastic**
99% of the plastic that should be floating in the oceans is missing. Where is it?
FixO3 – Fixed Point Open Ocean Observatories
Why are ocean observatories important?
IODP 370: Exploring the Temperature limit of Life in the Deep Biosphere
Follow researchers on the Japanese scientific drilling vessel Chikyu on their quest to understand the temperature limit of microbial life in the deep biosphere
- 11:45–12:00 **POLSTRACC – Research flights to the North Pole: the aircraft campaign**
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How do Greenhouse Gases Really Work?

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